CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

Job No.: CTCE/BBMP/W.No.02/BNKL/CEMENT/2012-13 Date: 20.02.2013

TEST REPORT

CLIENT	:	Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
AGENCY	:	Project Manager, Nirmithi Kendra (Urban), Bangalore.
NAME OF THE WORK	:	Construction of Individual Low cost houses to Poor SC/ST people in Nagenahalli, Haroballi and J.P. Colony in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
REFERENCE	:	BBMP/AEE/YSD/PR/ /2012-13
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4)	27.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5)	150 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	485 Minutes	Not More than 600 Minutes
3	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm

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Job No.: CTCE/BBMP/W.No.02/BNKU/SAND/2012-13 : 20.02.2013

TEST REPORT ON FINE AGGREGATES (SAND)

IS 383-1970 (RA- 2002)

Client : Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Agency : Project Manager, Nirmithi Kendra (Urban), Bangalore.

Name of Work : Construction of Individual Low cost houses to Poor SC/ST people in Nagenahalli, Harohalli and J.P. Colony in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.

Reference : BBMP/AEE/YSD/PR/ /2012-13

Date of Testing : 20.02.2013

Material : Sand Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Weight Remined (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	56	5.60	5.60	94.4	90-100
2.36	115	11.50	17.10	82.9	75-100
1.18	248	24.80	41.90	58.1	55-90
600 Micron	202	20.20	62.10	37.9	35-59
300 Micron	185	18.50	80.60	19.4	8-30
150 Micron	123	12.30	92.90	7.1	8-10

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Job No: CTCE/BBMP/W.No.02/BNKU/AGG/2012-13 : 20.02.2013

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Agency : Project Manager, Nirmithi Kendra (Urban), Bangalore.

Name of Work : Construction of Individual Low cost houses to Poor SC/ST people in Nagenahalli, Harohalli and J.P. Colony in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.

Reference : BBMP/AEE/YSD/PR/ /2012-13

Date of Testing : 20.02.2013

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **10000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	125	1.25	1.25	98.75	95-100
20	5680	56.80	58.05	41.95	30-70
10	2650	26.50	84.55	15.45	10-35
4.75	1245	12.45	97.00	3.00	0-5

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Job No: CTCE/BBMP/WNo 02/BNKU/AGG/2012-13 : 20.02.2013

TEST REPORT ON COARSE AGGREGATES

IS 383-1970 (RA- 2002)

Client : Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Agency : Project Manager, Nirmithi Kendra (Urban), Bangalore

Name of Work : Construction of Individual Low cost houses to Poor SC/ST people in Nagenahalli, Harohalli and J.P. Colony in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.

Reference : BBMP/AEE/YSD/PR/ /2012-13

Date of Testing : 20.02.2013

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= 5000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	197	3.9	3.9	96.1	95-100
10	3152	63.0	67.0	33.0	25-55
4.75	1478	29.6	96.5	3.5	0-10

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CIVIL-TECH CONSULTANTS AND ENGINEERS

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Job No: CTCE/BBMP/WNo-02/BNKU (STEEL)/2012-13 06.03.2013

TEST REPORT ON REINFORCEMENT STEEL

Client	:	Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Agency	:	Project Manager, Niramthi Kendra (Urban), Bangalore.
Name of the Work	:	Construction of Individual Low cost houses to Poor SC/ST people in Nagenahalli, Harohalli and I.P. Colony in Ward No 02 of Yelahanka Sub Division, BBMP, Bangalore.
Reference	:	BBMP/AEE/YSD/PR/ /2012-13
Date of Test	:	06.03.2013
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	8	0.40	510	552	13.05	O.K	O.K

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Job No: CTCE/BBMP/W.No.02/BNKU/STEEL/2012-13 06.03.2013

TEST REPORT ON REINFORCEMENT STEEL

Client	:	Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Agency	:	Project Manager, Nirmithi Kendra (Urban), Bangalore.
Name of the Work	:	Construction of Individual Low cost houses to Poor SC/ST people in Nagenahalli, Harohalli and J.P. Colony in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
Reference	:	BBMP/AEE/YSD/PR/ /2012-13
Date of Test	:	06.03.2013
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	10	0.62	513	556	13.20	O.K	O.K

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Job No: CTCE/BBMP/W.No.02/ANKU/STEEL/2012-13 06.03.2013

TEST REPORT ON REINFORCEMENT STEEL

Client	:	Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Agency	:	Project Manager, Nirmithi Kendra (Urban), Bangalore.
Name of the Work	:	Construction of Individual Low cost houses to Poor SC/ST people in Nagenahalli, Harohalli and J.P. Colony in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
Reference	:	BBMP/AEE/YSD/PR/ /2012-13
Date of Test	:	06.03.2013
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	12	0.89	515	558	13.45	O.K	O.K

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Job No : CTCE/BBMP/W.No.02/BNKU/BRICKS/2012-13 Date: 08.04.2013

TEST REPORT

CLIENT	:	Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
AGENCY	:	Project Manager, Nirmithi Kendra (Urban), Bangalore.
NAME OF THE WORK	:	Construction of Individual Low cost houses to Poor SC/ST people in Nagenahalli, Dazohalli and J.P. Colony in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
REFERENCE	:	BBMP/AEE/YSD/PR/ /2012-13
SAMPLE ID	:	Brick Test
SAMPLES SUPPLIED BY	:	CLIENT

The results of the tests conducted on the samples are as follows:

Sl. No	Description	Test method as per IS Codes	Result	Requirement as per IS 1077-1992 (Rev-5)
1	Compressive Strength Of Bricks	IS 3495-1992 (Part-1)	5.75 N/mm2	Class designation 5.0
2	Water Absorption of Bricks	IS 3495-1992 (Part – 2)	9.30 %	Not more than 20 %
3	Efflorescence of Bricks	IS 3495-1992 (Part – 3)	Moderate	Up to 12.5 Class
4	Dimensional Analysis of Bricks (minimum Sampling is 20 Nos)	IS 1077-1992 (Rev – 5)		
(a)	Measurement of Length in mm		4640 mm	(4680 ± 80 mm)
(b)	Measurement of Width in mm		2225 mm	(2200 ± 40 mm)
(c)	Measurement of Height in mm		1430 mm	(1400 ± 40 mm)

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Job No:CTCE/BBMP/W.No.02/BNKU/CUBE/2012-13 30.05.2013

TEST REPORT ON CONCRETE CUBES

Client : **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Project Manager,** Nirmithi Kendra (Urban), Bangalore.

Name of the work : Construction of Individual Low cost houses to Poor SC/ST people in Nagenahalli, Harahalli and J.P. Colony in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.

Reference : BBMP/AEE/YSD/PR/ /2012-13

Sample ID : RCC Roof Slab Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.05.2013	30.05.2013	8.267	496.3	22.06
2	02.05.2013	30.05.2013	8.345	515.7	22.92
3	02.05.2013	30.05.2013	8.463	522.6	23.23

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